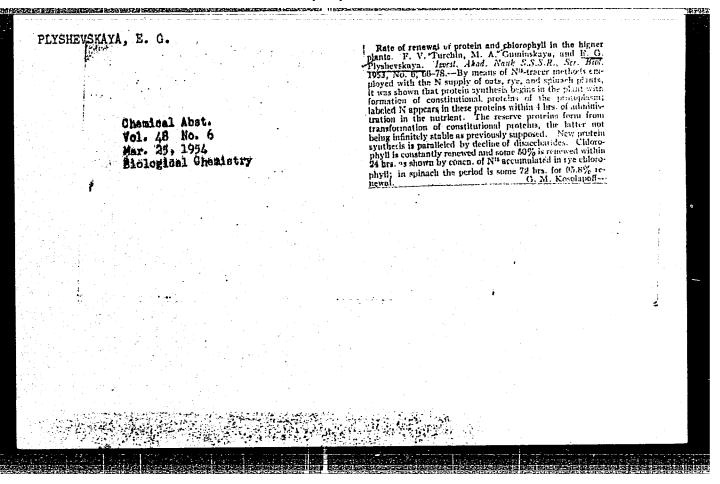
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USSR/Chemistry - Isotopes, Kinetics of Jul/Aug 53 Catalytic Oxidation "Catalytic Oxidation of the Simplest Unsaturated Hydrocarbons With Heavy Oxygen," L. Ya. Margolis, Ye. G. Plyshevskaya, Inst Phys Chem, Acad Sci USSR	Iz Ak Mauk SSSR, ORDN, No 4, pp 697-703 Investigated oxidation of ethylene and propylene at the catalysts V205, V204, and MgCr204. By using heavy oxygen, established the varying extent to which the oxygen of the catalysts participates in the process of catalytic oxidation. Found that there is a 270T4	connection between participation of the catalyst's oxygen in the reaction and formation of products of incomplete oxidation. Application of mass spectrometry for analysis of reaction products clarified differences in the mechanism of the oxidation of hydrocarbons at different catalysts.	27OT4

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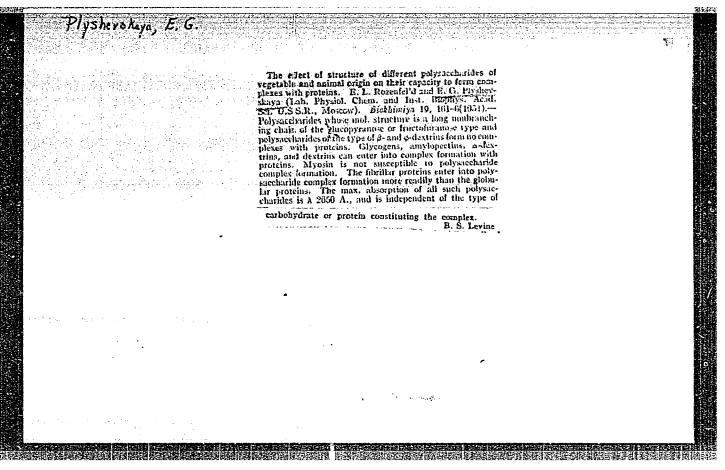
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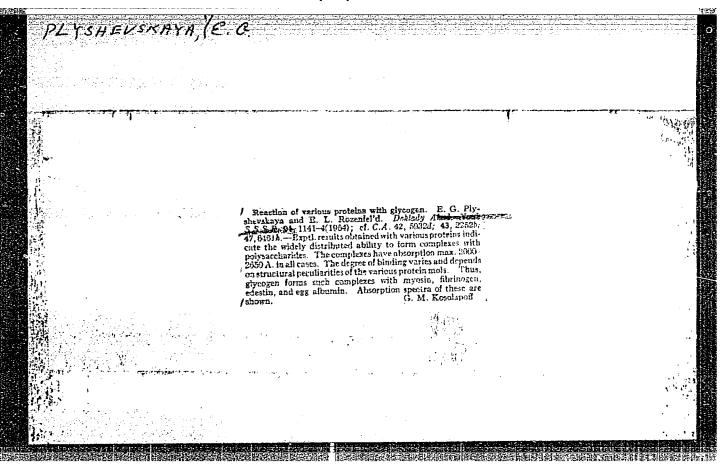


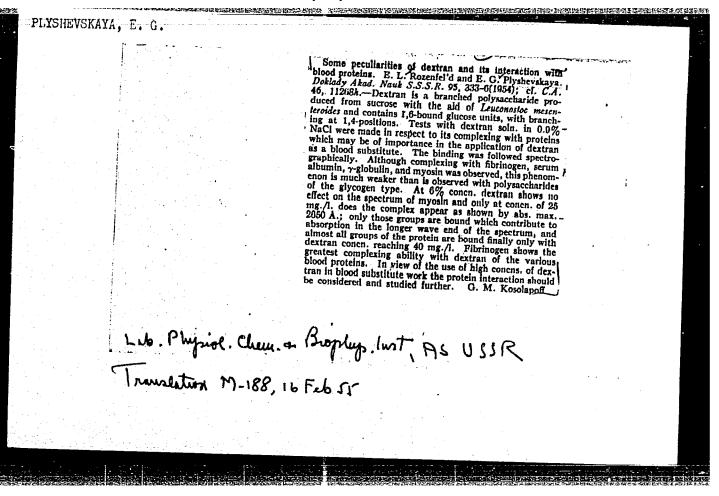
ROZENFEL'D. E.L.: PLYSHEVSKAYA, E.G.

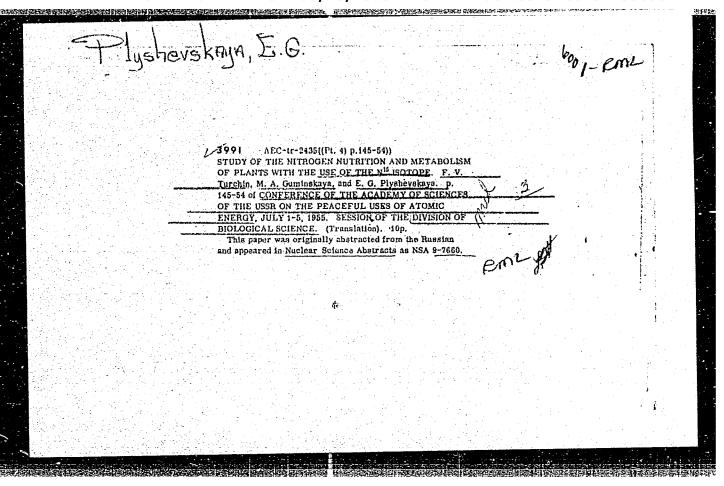
Investigation of the qualitative peculiarities of rabbit muscle glycones during alloxan diabetes. Biokhimiya 18, 51-5 '53. (MLRA 6:1) (CL 47 no.15:7640 '53)

1. tab. Physiol.Chem., Acad.Sci., U.B.S.R., Moscow.

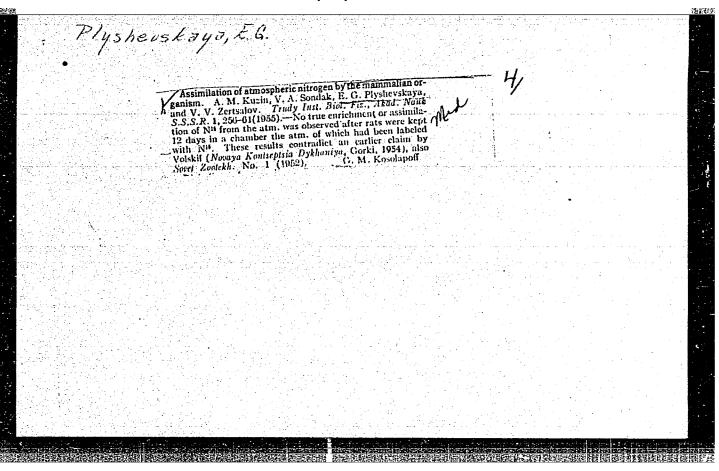


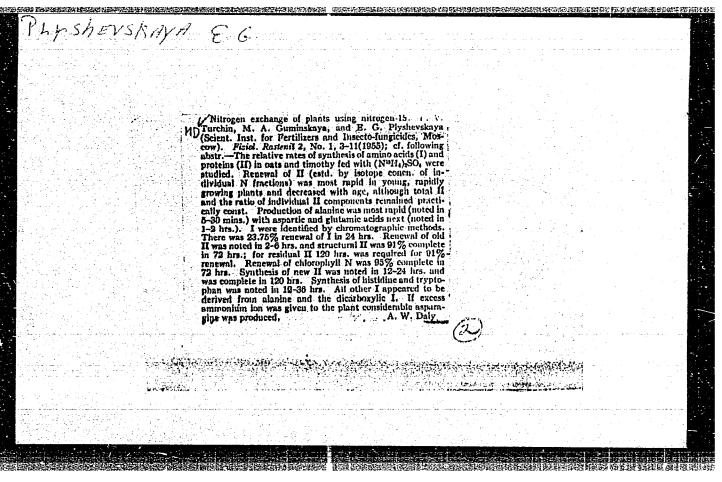


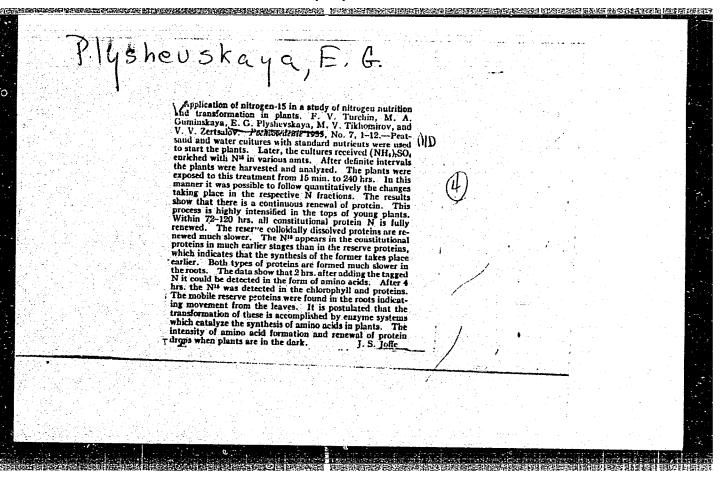


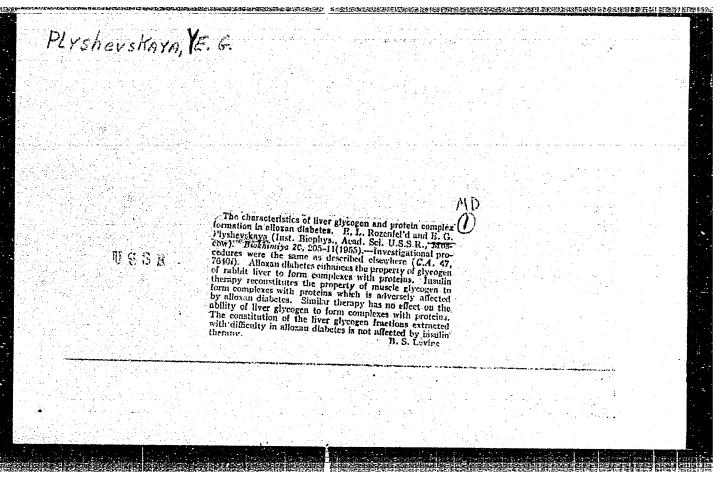


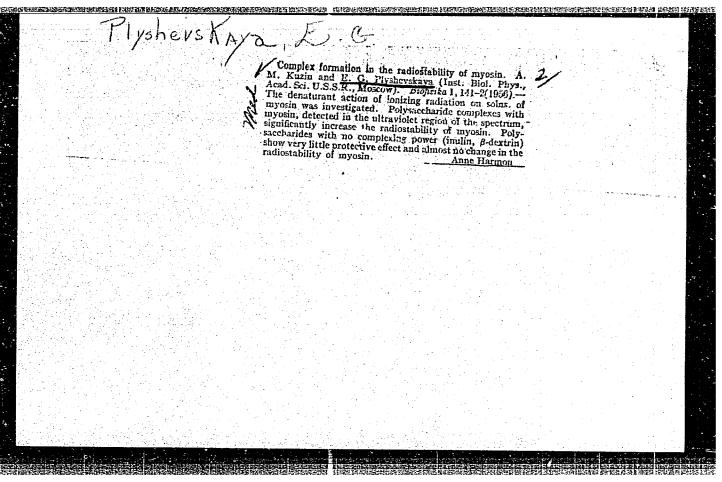
PLYSIEVER AV Mittogen nutrition and metabolism of plants with the sure of lattrogen-15. F. V. Turchin, M. A. Geminiskaya, and R. O.		THE SECOND STATE OF THE PROPERTY OF THE PROPER	24327
	Pzysherskary	Introgen nutrition and metabolism of plants with the aut of nitrogen-15. F. V. Turchin, M. A. Gaminiskaya, and E. G. Physhevskaya. Serviva Akad. Nauk S.S.R. po Mirnomu 18pot Scinitya Alomnoi Energii 1955. Zaredaniya Old. Biol. Nauk 234-52 (English summary, 252-3).—Nilabeled (NH, 1800, is used for N nutrition of cats and wheat under various conditions. The results show a continuous self-various conditions. The results show a continuous self-various conditions. The results show a continuous self-various lands in the plants, which is most active in young leaves in which within 90-100 hrs. almost all protein is renewed. Reserve proteins of the green parts are less impidly renewed than are the constitutional proteins. In the roots the renewal process is slower. Mineral N is rapidly utilized for synthesis of amino acids in the roots (within 15 mln.) the reserve proteins acting as carriers of the necessary enzyme systems. N of the pyrrole rings of the necessary enzyme systems. N of the pyrrole rings of chlorophyll is being constantly renewed (almost complete renewal in 100 hrs.). Illumination is an important factor in this phenomenon; even 6 hrs. in the dark causes a rapid decline of entry of N into the plant with simultaneous drop of amino acid synthesis. Renewal rate of proteins also	
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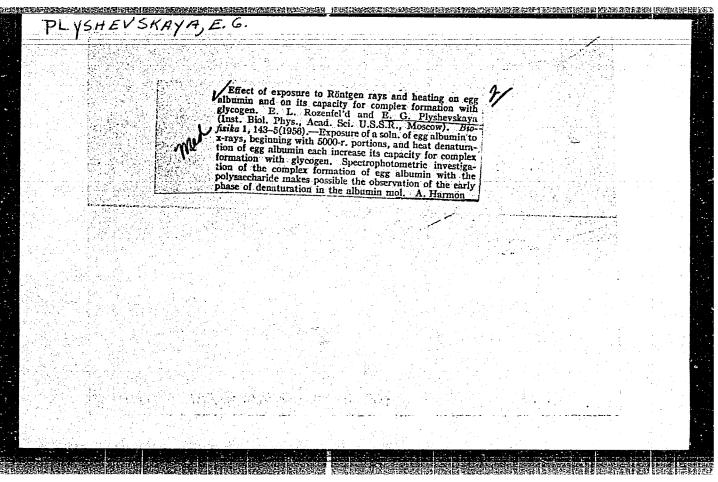












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PLYSHEVSKAYA

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour

: Ref Zhur - Biol., No 10, 1958, No 43728

Author

: Tserling, V. V.; Shcheglova, G. M.; Plyshevskaya, Ye. G.;

Zertsalov, V. V.

Inst

: Soil Institute of the Academy of Sciences, USSR

Title

: An Investigation of Plant Metabolism in Relation to Age, Doses and Times of Applying Fertilizers Utilizing the Isoto-

pe N15.

Orig Pub

: Fiziol. rasteniy, 1957, 4, No. 1, 3-13.

Abstract

: Millet was cultivated in a sand culture on a Gel'rigel' mixture. N¹⁴ was applied to the pots before planting, and N¹⁵ in side-dressing. The N¹⁵ content was determined by a mass spectrometer. The variants in the experiment were: $\frac{1}{2}$ dose of N¹⁴ given before planting, the rest by side-dressings at various times, 1/10 of a dose of N¹⁴ before planting and 9/10 of a dose by side-dressings at different times. With

Card 1/2

8

PLYSHEVSKAYA, Ye. G.

"The Investigation of Polysaccharide Albumen Complexes by Spectral Analysis."

dissertation defended for the degree of Candidate of Biological Sciences at the Inst. for Zoology.

Defense of Dissertation (Jan-Jul 1957) Sect. of Biological Sciences Vest. AN SSSR, 1957, v. 27, No. 12, pp. 115-117

ROZENFEL'D, YE,L., PLYSHEVSKAYA, Ye,G. (Moskva)

Some results of and procepect for spectroscopic study of protein complexes. Usp.sovr.biol. 46 no.2:130-144 &-0 '58 (MIRA 11:11) (PROTEINS-SPECTRA) (COMPLEX COMPOUNDS)

EWT(1)/EWT(m)/T L 25811-66 SOURCE CODE: UR/0216/65/000/004/0507/0520 ACC NR: AP6015925 AUTHOR: Kuzin, A. M.; Plyshevskaya, Ye. G.--Plyshevskaya, E. G.; Kopylov, V. Ivanitskaya, Ye. A.-Ivanitzkaya, E. A.; Lebedeva, N. Ye.-Lebedeva, N. E.; Kolomiytseva, I. K.--Kolomiytzeva, I. I.; Mel'nikova, S. K.--Melnikova, S. K.; Tokarskaya, V.I. ORG: Institute of Biophysics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR) TITIE: Function of the orthophenol-orthoquinone system in the early mechanism of action of ionizing radiation on the organism SOURCE: AN SSSR. Izvestiya, Seriya biologicheskaya, no. 4, 1965, 507-520 TOPIC TAGS: ionizing radiation, radiation biologic effect, radiation plant effect, tyrosine, sorption, oxidation, DNA, biosynthesis, radiation sickness ABSTRACT: The authors concluded from a variety of experiments on plants and animals that the initial processes in the irradiated organism develop in the following sequence: (1) During irradiation the formation of active radicals causes very slight radiochemical oxidation of the phenols present in the cell, chiefly tvrosine. (2) The resultant oxidation products activate tyrosinase, which immediately after irradiation leads to the formation of large quantities of biologically active or tho quinones. (3) The resultant orthoguinones are actively sorbed by the cell nuclei. VDC: 577.391

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BURSHTEYN, E.A.; L'VOV, K.M.; ROZOVA, L.V.; FRANK, G.M., red.; PLYSHEVSKAYA, Ye.G., red.

[Molecular biophysics] Molekuliarnaia biofizika. Moskva, Nauka, 1965. 251 p. (MIRA 19:1)

1. Chlen-korrespondent AN SSSR (for Frank).

BERKINBLIT, M.B.; BURSHTEYN, E.A.; L'VOV, K.M.; PULATOVA, M.K.; ROZOVA, L.V.; FRANK, G.M., red.; PLYSHEVSKAYA, Ye.G., red.

[Cell biophysics] Biofizika kletki; sbornik statei pod red. G.M.Franka. Moskva, Nauka, 1965. 294 p (MIRA 19:1)

1. Akademiya nauk SSSR. Institut biologicheskoy fiziki.

2. Chlen-korrespondent AN SSSR (for Frank).

KUZIN, A.M.; PLYSHEVSKAYA, Ye.G.; KOPYLOV, V.A.; IVANITSKAYA, Ye.A.; LEHEDEVA, N.Ye. KOLOMIYTSEVA, I.K.; TOKARSKAYA, V.I., MEL'NIKOVA, S.K.

Role of orthophenol-orthoquinone system in the initial mechanisms of ionizing radiation action on the organism. Izv. AN SSSR. Ser. biol. no.4:507-520 Jl-Ag 165. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR.

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L 1398-66 ... EWT (m) ACCESSION NR: AP5017763 UR/0216/65/000/004/0507/0520 AUTHOR: Kuzin, A. M.; Plyshevskaya, Ye. G.; Kopylov, V. Ivanitskaya, Ye. A.; Lebedeva, N. Ye.; Kolomiytseva, I. Tokarskaya, S. K.; Mel'nikova, S. K. 577.391 TITLE: Role of the "orthophenol-orthoquinone" system in the primary mechanisms of radiation effect on the organism SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 4, 1965, 507-520 TOPIC TAGS: radiation biologic effect, phenol, quinone, enzyme, desoxyribonucleic acid, tyrosine, oxidation ABSTRACT: A hypothesis stating that the oxidation reaction of orthophenols in response to high energy irradiation is closely related to the formation of orthoquinones (semiquinones) has evolved from the experimental work of the laboratory with which the authors are associated. In the present study the immediate effects of X-irradiation on enzyme process rates were investigated in a tyrosine+tyrosinase model system under strictly controlled conditions

L 1398-66 ACCESSION NR: AP5017763

(210 kv, 15 ma, no filter, 100 to 1000 r doses, 10 min incubation). Change in enzyme process rate was determined by the concentration of newly formed orthophenols and orthoquinones. With irradiation of the whole system, the concentration was 5 times higher than for controls. Irradiation of only the tyrosine solution led to a lesser concentration, and the concentration decreased still further with irradiation of only the tyrosinase. When the irradiated mixture was incubated with a suspension of mouse thymus nuclei, the tyrosine oxidation products (orthoguinones) were completely absorbed by the nuclei. Fluorescence tests with acridine-orange on thymus nuclei of mice immediately after irradiation and tests on thymus nuclei treated with tyrosine oxidation products demonstrated the similarity of irradiation effect and orthoquinone effect. The same effect was demonstrated with quinome extracts from gamma-irradiated plant tissue (potato). Treatment of carbon-labeled plant sprouts with extracts from irradiated plants depressed DNA synthesis by 50 to 60%, the same as after gamma-irradiation. Injection of purified orthoquinones, extracted from irradiated plant tissues, into young mice caused loss of weight, growth inhibition, and a sharp decrease in leukocyte level of the peripheral blood. These study data demonstrate the importance of the

Card 2/3

L 1398-66 ACCESSION NR: AP501776		mimowy machanisms	of 1
"orthophenol-orthoquino radiation effect. Orig	. art. has: 10 fig	ures and 4 tables	•
ASSOCIATION: Institut Biophysics AN SSSR)	biologicheskiy fizi	ki AN SSSR (Insti	tute of
SUBMITTED: 22Jan65	ENCL: 00	SUB CODE	: LS
NR REF SOV: 021	OTHER: OLO		

PLYSHEVSKAYA, Ye.G.; KUZIN, A.M.

Change in sorption properties of thymus cell nuclei immediately following gamma irradiation. Radiobiologiia 5 no.1:17-20 '65. (MIRA 18:3)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

PLYSHEVSKAYA, F.G. Cand Biol Sci -- (diss) "Study of polysaccharidealbumin complexes by spectral method." Mos, 1956. 20 pp 20 cm.

(Acad Sci USSR. Inst of Biochemistry im Bakh) 110 copies (KL, 9-57, 100)

-11-

ACC NR: AP7000366

SOURCE CODE: UR/0413/66/000/022/0143/0143

INVENTOR: Borodulin, G. M.; Dekhanov, N. M.; Kravchenko, V. A.; Plyshevskiy, A. I.

ORG: none

TITLE: Method of obtaining a bimetallic material. Class 48, 188818

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1965, 143

TOPIC TAGS: metal cladding, diffusion cladding

ABSTRACT: This Author Certificate introduces a method of manufacturing clad metal products such as sheets, tubes and bars by impregnating the surface of the base metal with a sublimated substance without direct contact between them. In order to improve the corrosion and oxidation resistance of the surface layer, the impregnation is carried out at 1400—1450C, after which the article is hot or cold rolled.

SUB CODE: 13/ SUBM DATE: 15Dec61/ ATD PRESS: 5109

Card 1/1

UDC: 621.793.6:621.771.8

L 15210-65 EWT(m)/EWP(w)/EWA(d)/EWP(t)/EPR/EWP(b) Ps-4 SSD/ASD(m)-3/AFTC(p)
FJW/JD/JG/MLK

ACCESSION NR: AT4046858

5/0000/64/000/000/0299/0303

AUTHOR: Borodulin, G. M.; Kravchenko, V. A.; Ply*shevskiy, A. I.

TITLE: Investigation of heavy chromium diffusion coatings

SOURCE: AN SSSR. Nauchny*y sovet po probleme zharoprochny*kh splavov. Issledovaniya staley i splavov (Studies on steels and alloys). Moscow, Izd-vo Nauka, 1964, 299-303

TOPIC TAGS: diffusion coating, gaseous state coating, chromium coated steel, chromium coating, coated steel property

ABSTRACT: A method has been developed for deposition of heavy diffusion coatings, including chromium, aluminum, and manganese coatings. The method is novel in that there is no direct contact between the medium which contains the coating metal and the article being coated. The method ensures a very strong bond between the coating and the base metal, permits the formation of coatings of any thickness, eliminates the danger of the coating-containing medium being fused to the article being coated, and produces coatings free of nonmetallic inclusions or gases. The method has been variously tested, including in chromium

Cord 1/3

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ACCESSION NR: AT4046858

3

plating of finished articles such as bolts, bushings, and tubes and in chromium cladding of semifinished products such as slabs, which were subsequently hot and cold rolled into chromium-clad sheets 1.0-1.5 mm thick. The diffusion layer on OSKP wteel slabs was approximately 6 mm thick with a surface chromium content of 40%. Sheet, 3 mm thick, hot rolled from these slabs, had a diffusion layer 0.1 mm thick with a surface chromium content of 27%. No difficulties were encountered in hot or cold rolling, or in deep drawing of the sheets. Corrosion tests of the chromium-coated O8KP steel specimens with a diffusion layer 1.5 mm thick and a surface chromium content of 52% showed that the chromium-coated steel has a corrosion resistance comparable and in some cases superior to that of <a href="https://linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/linear.com/line which are chromium coated after rolling, but the cost of the former is considerably lower. Chromium-coated articles can be carbarized or nitrided. face hardness nexceeding 70RC can be achieved. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: none

Card 2/3

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PLYSHEVSKIY, Boris Pavlovich, st. nauchn. sotr., kand. ekon. nauk;
YAREMENKO, Yuriy Väsil'yevich, mlad. nauchn. sotr.; KATS,
V.I., doktor ekon.nauk, red.; TRIFSIK, G.B., red.; RYABOVA,
Ye.A., red.; PONOMAREVA, A.A., tekhn. red.

GENERAL PRINCES CONTRACTOR DE LA CONTRACTOR DE CONTRACTOR

[Regularities of the development of the national product and national income] Zakonomernosti dvizheniia obshchestvennogo produkta i natsional'nogo dokhoda. Moskva, Ekonomizdat, 1963. 187 p. (MIRA 16:8) (Gross national product) (Income)

PLYSHEVSKIY, Boris Pavlovich; BUDARINA, V., red.; KOROLKVA, A., mladshiy red.; MOSKVINA, R., tekhn.red.

[Distribution of national income in the U.S.S.R.] Raspredelenie natsional'nogo dokhoda v SSSR. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1960. 245 p. (MIRA 13:9)

这个特别的事情,这是全部们也许有多数的现在分词是不是他的最大的最大的最后的是这些的主义。这是一个是一个是一个是一个是一个是一个是一个是一个是一个是一个是一个是一

ABALKIN, Leonid Ivanovich; VAL'TUKH, Konstantin Kurtovich;
DOLOTENKOVA, Liliya Pavlovna; MANDRYGINA, Faina
Aleksandrovna; PLYSHEVSKIY, B.P., red.; MATSUK, R.V.,
red. izd-va; GARINA, T.D., tekhn. red.

[Study of the production of the means of production under the conditions of the general crisis of capitalism; based on the U.S.A.]Ocherk vosproizvodstva v usloviiakh obshchego krizisa kapitalizma; na primere SShA [By] L.I.Abalkin i dr. Moskva, Vysshaia shkola, 1962. 118 p. (MIRA 15:8)

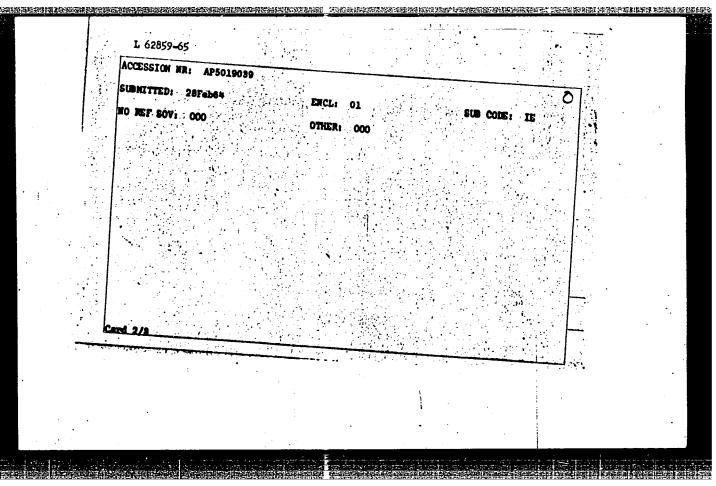
(United States—Economic conditions)

PLYSHEVSKIY, I., ingh.

Rod pump with the water-lifting windlass "Burvod-III," and its operation. Voen.-ingh.ghur. 96 no.9:25-29 S *52. (MIRA 12:3) (Pumping machinery)

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	1	L 62859-65			*
		ACCESSION NR: AP5019039	UR/0286/65/00 624.953 : 621	0/012/0070/0070	
	•	AUTHOR: Zalavin, K. P.; Kolpachev, Rashidov, N. F.; Grishin, M. S.; San	Yu. G.; Okhotnikov, A. A.; Kir dakov, Ye. A.; Golovanov, G. F	eyev, V. G.; B	
		TITLE: A tank for storage and trans	portation of liquids. Class 3	7, No. 172022	
		SOURCE: Byulleten' isobreteniy i to	ovarnykh znakov, no. 12, 1965,	70	
		TOPIC TAGS: liquid storage, tank			
• <b>!</b>		ABSTRACT: This Author's Certificate portation of a liquid. The unit is truncated come with a neck and a rin of the neck and can be replaced so t avoided in case the ring is damaged. floating ring is made replaceable by the neck by straps.	made of an elastic material in g. The floating ring is mount hat buckling of the rim of the 2. A modification of this to	the form of a ed on the outside neck can be	
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PLYSHEVSKIY, Yu.S.; LEONT'YEVA, I.A.; SMIRNOVA, G.M.

Physicochemical properties of barium hexaborate. Zhur. neorg. khim. 8 no.12:2811-2812 D '63. (MIRA 17:9)

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RG: Ur	cal Scientific Re	esearch Chemical Institu	ute, Sverdlovsk (Ura	l'skiy nauchno-
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SOURCE: 1933-193		stiya. Neorganicheskiy	e materialy, v. 1, i	o. 11, 1965,
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L 45707-66 EWP(e)/FWT(m)/EWP(t)/ETI IJP(c) WH/JD SOURCE CODE: UR/0078/66/011/008/1822/1826

AUTHOR: Plyshevskiy, Yu. S.; Garkunova, N. V.; Leont'yeva, I. A.; Zhitkova, T. H.

ORG: none

TITLE: Decomposition of datolite on heating

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 8, 1966, 1822-1826

TOPIC TAGS: boron mineral, calcium mineral, borate, borate glass, silicate

ABSTRACT: The thermographic method was used to determine the heat effects associated with phase transformations and the heat capacity of the mineral datclite. The phase transformations were found to occur only above 920°. In the 950-980°C range, the mineral decomposes as follows:

 $2Ca0 \cdot B_2O_3 \cdot 2SiO_2 \cdot H_2O \rightarrow Ca0 \cdot B_2O_3 + Ca0 \cdot SiO_2 + SiO_2 + H_2O^{\uparrow}$ .

Monocalcium borate  $Ca0 \cdot B_2O_3$ , monocalcium silicate  $\beta$ - $Ca0 \cdot SiO_2$ , quartz  $\alpha$ - $SiO_2$ , and  $SiO_2$ -oristobalite are thus formed. At 1100 °C, the mixture of newly formed compounds melts, forming borate glass. The heat of reaction of the datolite decomposition is 6.4 kcal/mole. The heat of reaction of the dehydration

 $2C_{RO} \cdot B_{2}O_{4} \cdot 2SiO_{4} \cdot H_{2}O \longrightarrow 2C_{RO} \cdot B_{2}O_{4} \cdot 2SiO_{4} + H_{2}O +$ 

Card 1/2

UDC: 546.824'42'273:542.92

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# PLYTNIKOVA, T.G.

Increasing the coefficient of propagation in the process of improved seed production of coriander. Agrobiologia 5:750-755 E-0 '64.

(MIRA 17:11)

l. Alekseyevskaya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'-skogo instituta maslichnykh i efiromaslichnykh kul'tur.

PLYUGACHEV, V.K., kand.tekhn.nauk; KAMENSKIY, A.F., inzh.

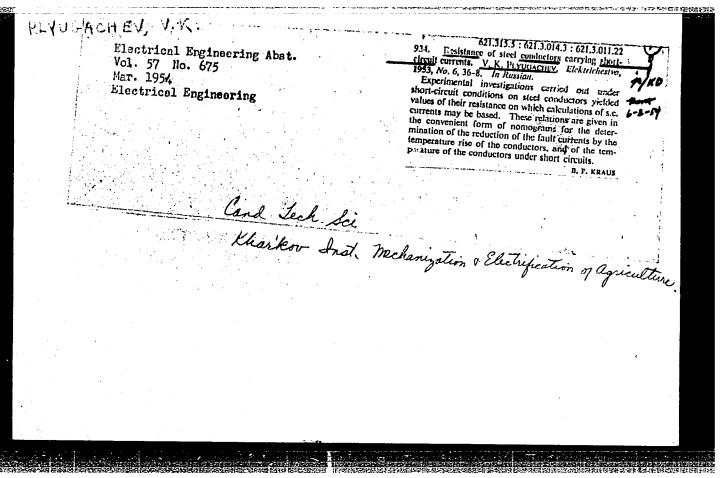
Unipolar short-circuit and choice of wire in electrical networks with distributed grounding of the neutral line. Izv. vys. ucheb. 2av.; energ. 7 no.3:26-32 Mr 164.

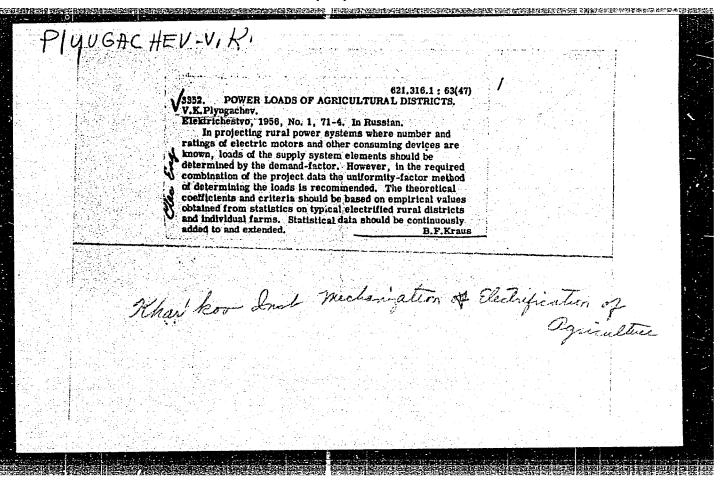
l. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva nechernozemnoy zony

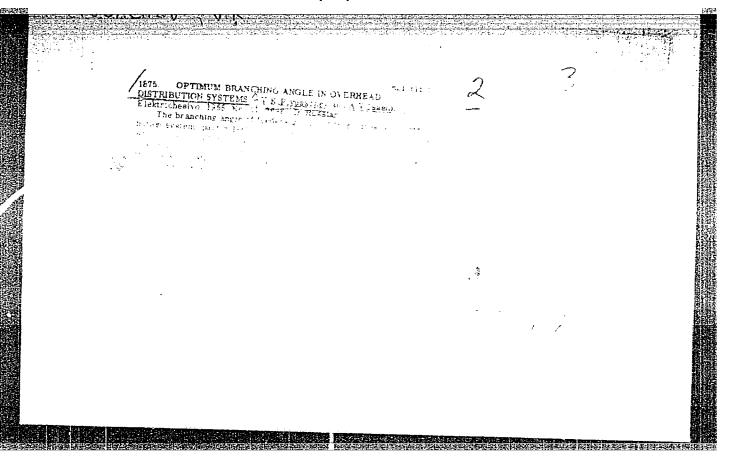
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		of wire for elec power networks using stranded of wire for elec power networks using stranded 240131  240131  steel conductors. Steel is recommended for rural power lines for economic reasons and is adequate material due to low average line load and short peak load. Submitted 10 Jul 51.	"Elektrichestvo" No 3, pp 48-52 Gives approx dependence between voltage losses	"Analytical Method for Calculating Open Networks With Steel Conductors," Cand Tech Sci V. K. Plyu gachev, Moscow Inst for Mechanization and Electrification of Agriculture imeni Molotov	USSR/Electricity - Distribution Systems
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KAMENSKIY, A.F.; PLYUGACHEV, V.K.

Conversion of closed municipal power distribution networks to operation with grounded neutral. Trudy LIEI no. 49:169. (MIRA 17:6)







PLYUGACHEV. V.K., kandidat tekhnicheskikh nauk.

Distribution substations with bus bars at the bottom. Elek.sta. 27 (MLRA 9:11)

(Blectric substations)

PLYUGACHEV, V.K., kand.tekhn.nauk; BOYKO, M.S., kand.biologicheskikh nauk

Veterinary hygiene in a dairy barn with loose housing of animals.

Veterinariia 40 no.5:53-54 My '63. (MIRA 17:1)

PLYUGACHEV, V.K., kand. tekhn. nauk, dotsent

Power ratings of electric substations and radius of power distribution networks carrying different voltages in the electrification of agricultural regions. Nauch. zap. KHIMSKH Fak. elek. sel*khoz. 1 no.10:5-22 *58. (MIRA 16:7)

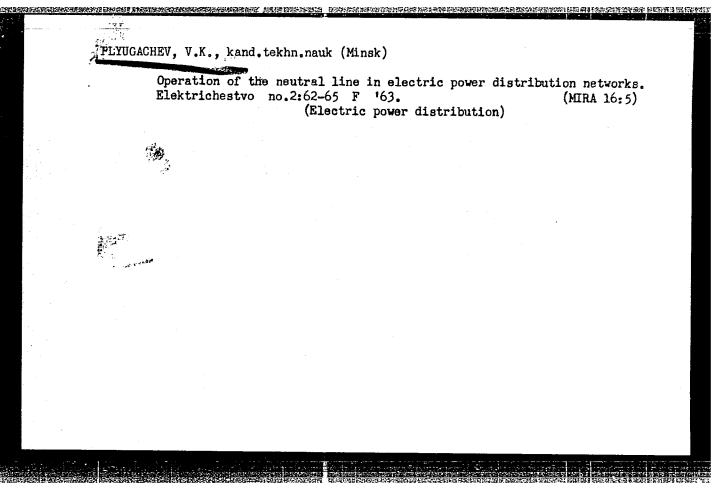
(Rural electrification)

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PLYUGACHEV, V.K., dotsent; CHERNOMAZ, V.A., assistent

Indices and coefficients for determining the electrical loads of rural regions. Nauch. zap. KHIMSKH Fak. elek. sel'khoz. 1 no.10:49-62 '58. (MIRA 16:7)

(Rural electrification)



PLYUGACHEV, Vitaliy Kuz'mich, kand. tekhn. nauk; SAZONOV, N.A., akademik, red.; BOROVIKOVA, R., red.; DIK, V., tekhn.

[Principles of an efficient power supply system for agriculture] Osnovy ratsional'nogo elektrosnabzheniia sel'skogo khoziaistva. Pod red. N.A.Sazonova. Minsk, Sel'khozgiz BSSR, 1962. 239 p. (MIRA 16:6)

1. Akademiya nauk Belorusskoy SSR (for Sazonov).
(Rural electrification)

PLYUGACHEV, V.K., kand.tekhn.nauk

Changing over to a grounding neutral in rural electric networks.

Mekh. 1 elek. sots. sel'khoz. 19 m.1:40-45 '61. (MIRA 14:3) '

1. Institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva
Akademii sel'skokhozyaystvennykh nauk BSSR.

(Electric currents—Grounding)

到这种情况是10年的人,我们就是10年的人,我们是一个人,我们就是10年的人,我们就是10年的人,我们就是10年的人,我们就是10年的人,我们就是10年的人,我们

PLYUGACHEV, V.K., kand.tekhn.nauk, dots.

Concerning the distance embraced by electric network territories with intermittent load density. Izv.vys.ucheb.zav.; energ. 3 no.10:14-16 0 '60. (MIRA 13:11)

1. Institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva Akademii sel'skokhozyaystvennykh nauk BSSR. Predstavlena nauchnotekhnicheskim soveshchaniyem otdela elektrifikatsii.

(Electric power distribution) (Electric substations)

SAZONOV, N.A.; PLYUGACHEV, V.K., kand.tekhn.nauk

Changing over to two-stage voltage system in farm electrification. Mekh.i elek.sots.sel'khoz. 17 no.6:34-36 '59. (MIRA 13:4)

1. Belorusskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva. 2. Deystvitel'nyy chlen Akademii sel'skokhozyaystvennykh nauk BSSR (for Sazonov).

(Bural electification)

PLYUGACHEV, V.K., kand.tekhn.nauk

Moving the step-down substation towards the source of supply. Izv.vys.ucheb.zav.; energ. 2 no.6:12-15 Je 159. (MIRA 13:2)

1. Institut mekhanisatsii i elektrifikatsii sel'skogo khozyaystva Akademii sel'skokhozyaystvennykh nauk BSSR. Predstavlena
nauchno-tekhnicheskim soveshchaniyem.

(Electric substations)

(Electric power distribution)

PLYUGACHEV, V.K., dots., kand.tekhn.nauk

Determining the number of line branches from substations supplying a distributed load. Izv. vys. ucheb. zav.; energ. no.7:8-12
J1 *58. (MIRA 11:10)

1. Khar'kovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Electric power distribution)

PLYUGACHEV, V. K.

"Problems of the Calculation of Electric Networks with Steel Wires."

Dissertation for the Degree of Candidate of Technical Sciences, defended at Moscow Institute for Mechanization and Electrification of Agriculture. 21 Dec 1951. (Elektrichestvo, 1958, Nr 4, 92-93)

#### CIA-RDP86-00513R001341330002-4 "APPROVED FOR RELEASE: 08/23/2000

PLYUGACHEV. V.K.

91-58-7-4/27

。 第一章 1985年 - 1985年 1985年 1988年 - 1987年 1988年 1

AUTHOR:

Zul', N. M., Plyugachev, V. K., Candidates of Technical Sciences,

Isayenko, A.V., Kozyulin, A.S., Kurtsvayl', G.I., Bernshteyn, L.Kh.,

Yeganov, B.N., Engineers

TITLE:

The Protection of Branches of 6 to 10 kv Lines (O zashchite otpayek

ot liniy 6-10 kv).

PERIODICAL: Energetik, 1958, Nr 7, pp 11-18 (USSR).

ABSTRACT:

The editor prints the comments on articles dealing with the above problem published by P. V. Ternikov in "Energetik", Nr 4, 1956

and by M. Yu. Shukhatovich in "Energetik", Nr. 6, 1957.

N. M. Zul', Candidate of Technical Sciences says that most of the 6 to 10 kv rural distributing networks with radial long distance branched lines are protected only at the terminal switch. To increase the reliability of the electric power supply, it is recommended to tap the lines widely utilizing safety fuses. Combining main line safety fuses with those of branch lines, as well as with automatic reclosing systems is very advisable. This

method is described in detail. The following devices can be

utilized: "UGP-51" or PG-10" types for automatic reclosing; "IT-81" type relay, direct release relays and safety fuses of "PSN" or "PK"

type. Experimental samples of reclosing safety fuses have been

Card 1/3

91-58-7-4/27

AUTHOR: Zul', N. M., Plyugachev, V. K., Candidates of Technical Sciences,

Isayenko, A.V., Kozyulin, A.S., Kurtsvayl', G.I., Bernshteyn, L.Kh.,

Yeganov, B.N., Engineers

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Card 1/3

The Protection of Branches of 6 to 10 kv Lines

91-58-7-4/27

worked out and manufactured at "VET" and "VIESKh" on the basis of "PK" type fuses, and the 10 kv line switch of pole type with simple instantaneous and automatic load reclosing of single-phase model with nominal currents of 5 to 20 amp. and breaking capacity of 5 mega volt-amperes has been worked out by the "Uralelektroapparat" plant. V. K. Plyugachev, Candidate of Technical Sciences and A. V. Isayenko, Engineer, examine lines with dead branches. The automatic reclosing system cannot be utilized in this case. The exact solution can be obtained only by determining the failure-rate of lines and other elements of electric power supply. The average failure-rates of certain elements of networks are contained in a table and the method of determining the breakdown loss of electric energy on lines with automatic reclosing system and branches without safety fuses is described in detail. A. S. Kozyulin, Engineer, indicates that in a network rayon containing lines of a few hundred kilometers length, over a 5 year period, 80% of the failures were caused by shortcircuits to the earth. Inter-phase short-circuits were caused mainly by a fall of line supports. G. I. Kurtsvayl', Engineer, says that most branched town distributing networks of 6 to 10 kv have a radial power

Card 2/3

The Protection of Branches of 6 to 10 kv Lines

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91-58-7-4/27

supply, and that subscriber's branch lines can be connected with main lines only by disconnectors. Such lines are located with 2 to 3.5 megawatts and their total length attains 3 to 5 km. They are connected with 25 to 35 transformers, which are protected only at the switch of line terminal section coming from the bars of the rayon substation. Such lines are to be connected with subscribers by means of "PK" type safety fuses and power disconnectors (load switches) of "VN-16" type in closed rooms of "PT" type or by means of "PSN-10" type safety fuses in outdoor installations. L.Kh. Bernsteyn, Engineer, writes that long distance branched networks of 6 to 10 kv with radial power supply can be protected by safety fuses, but the latter must be combined with disconnectors for subdividing main lines. However, the design of pole safety fuses described by P.V. Ternikov is not to be recommended. B.N. Yeganov, Engineer, writes that the protection of branched 6 to 10 kv main lines can be carried out in many variants utilized according to the total length of the main line. There are 2 figurs, 1 graph, 2 tables and 3 Soviet references.

Card 3/3

1. Transmission lines--Overload protection 2. Fuses (Electricity) -- Equipment 3. Electric switches-- Equipment

ISAYENKO, A.V., inzh.; PLYUGACHEV, V.K., kand. tekhn. nauk

No-load disconnecting of large power transformers using disconnect switches. Elek. sts. 29 no. 3:79-81 Mr '58. (MIRA 11:5)

(Blectric transformers) (Electric switchgear)

PLYUGACHEV, Vitaliy Kus'mich [Pliuhachov, V.K.]; POKATAYEV, A.I.

[Pokataiev, A.I.], spets.red.; KAMINSKIY, L.N. [Kemins'kyi, L.N.], red.; ZAMAKHOVSKIY, L.S. [Zamakhovs'kyi, L.S.], tekhn.red.

[Problems in the efficient supplying of electricity to rural areas] Pytannia ratsional'noho elektropostachannia sil's'kykh areas] Pytannia ratsional'noho elektropostachannia sil's'kykh raioniv. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1959. 91 p.

(Rural electrification)

PLYUGACHEV, V.K., kand. tekhn. nauk

Selecting voltage for rural distribution networks. Izv. vys. ucheb. zav.; energ. 2 no.7:15-21 Jl '59.

THE PRINCIPLE OF THE PROPERTY OF THE PROPERTY

(MIRA 13:1)

1. Institut mekhanisatsii i elektrifikatsii sel'skogo khozyaystva Akademii sel'skokhozyaystvennykh nauk BSSR.

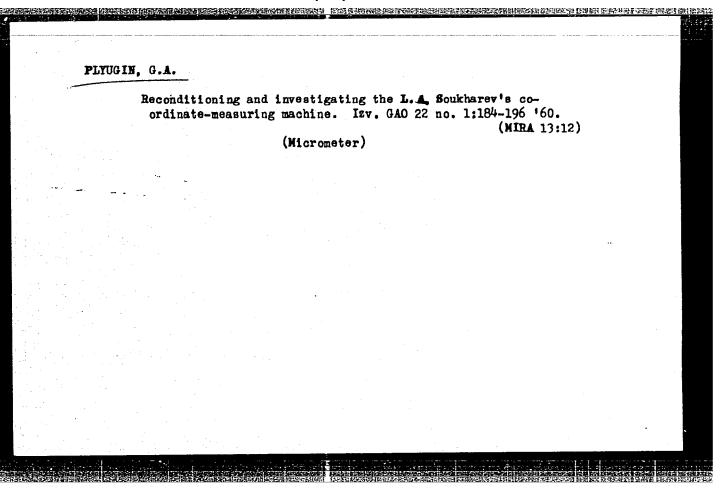
(Electric power distribution)

AGENTAN, T.A.; KAVRAYSKAYA, K.V.; PLYUGIN, G.A.; STRUGATSKIY, B.N.; SHISHKIBA, G.A.

An indication of the interaction of stars and diffuse matter.
Astron.shur. 33 no.5:679-681 S-0 '56. (NLRA 9:12)

1. Astronomicheskaya observatoriya Leningradskogo gosudarstvennogo universiteta.

(Stars) (Interstellar matter)



27081 \$/123/61/000/015/031/032 A004/A101

3,1230

AUTHOR:

Plyugin, G. A.

TITLE:

Restoration and investigation of the L. A. Sukharev coordinate

measuring machine

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 30, abstract 15Zh230 ("Izv. Gl. astron. observ. v Pulkove", 1960, v. 22, no. 1.

184-196, English summary)

TEXT: The author describes the coordinate measuring machine, developed in 1941 at the Leningradskiy astronomicheskiy institut (Leningrad Astronomical Institute) for the investigation of stellar photographs obtained on plates of 240 x 240 mm. It is also possible to investigate plates of smaller dimensions if special inserts are used. Measuring is effected along one coordinate with the aid of a micrometric screw with 30 mm thread diameter. The constancy of position of the micrometric screw is ensured by mounting it on knife edge bearings with spring-type tangential tightening. The footstep bearing of the screw consists of a steel ball and a washer which increases the stability of the machine and greatly reduces the pressure per unit of area of the supporting pivot. A limb 160 mm

Card 1/3

27081 8/123/61/000/015/031/032 A004/A101

Restoration and investigation ...

in diameter for the reading of screw revolution? fractions is placed at its opposite end and divided along the rim into 1,000 parts which makes it possible to read off immediately thousandth parts of mm and interpolate up to 0.0001 mm. Periodical errors of the screw are excluded by using a correction disk on which one end of the rocking limb index is sliding. The other end of the index is used for the reading of screw revolution fractions. At an index arm ratio of 1: 10 the correction disk shape execution ensures the exclusion of periodical errors with an accuracy of 0.0001 mm. Precision measuring of the second coordinate is effected by the rotation of a position circle through 90°, the circle carrying the negative plate. The precision indexing of the position circle and the presence of two reading microscopes mounted on the negative carriage and spaced at 180° makes it possible to carry out measurements in polar coordinates. The measuring limb of the position circle has an operation radius of 180 mm with a graduation of 101. The reading error of the position angle does not exceed 39". The tube length of the main microscope is 160 mm. Its eyepiece has a magnification of 15x, the objective one of 1.5x. The objective magnification is changed with the aid of an adapter which makes it possible to use the standard objectives of biological microscopes. Moreover, the author describes the restoration work of the coordinate measuring machine which was damaged at the

Card 2/3

Restoration and investigation ...

27081 S/123/61/000/015/031/032 A004/A101

beginning of the war when it was transported to the Stalinabad Observatory. He describes investigations of the periodical error of the machine micrometric screw which is understood as the summary error of four periodical ones: the first periodical error of the screw; the second periodical error of the bearing system; the third error of the limb graduation; the fourth error of the limb fit. The article also contains an investigation of progressive screw errors and presents tables of its running corrections. Moreover, an investigation of the curvature of the prism is given which guides the movement of the negative carriage. Graphs of all corrections are given, both of those obtained immediately after the manufacture of the machine and of others compiled after its resteration.

是一个人,我们就是一个人,我们们们的一个人,我们们们们的一个人,我们们们的一个人,我们们们的一个人,我们们们的一个人,我们们们就是这些人,我们们就是这些人的人,我们

L. Davydov

[Abstracter's note: Complete translation]

+

Card 3/3

### PLYUGIN, G.A.

Determining the position of the moon in relation to stars.
Astron.zhur. 38 no.2:345-360 Mr-Ap '61. (MIRA 14:4)

1. Glavnaya astronomicheskaya observatoriya AN SSSR. (Moon)

KISELEV, A.A.; PLYUGIN, G.A.

Determination of the optical center of the 26" refracting telescope. Izv. GAO 23 no.4:127-129 '64. (MIRA 17:9)

#### PLYUGINA, A.I.

Experiments in photoelectric recording of transits of stars on the large transit instrument at the Pulkovo Coservatory.

Izv. GAO 22 no. 1:101-106 '60. (MIRA 13:12)

(Stars--Coservations) (Photoelectric measurements)

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# CIA-RDP86-00513R001341330002-4

8/035/61/U(ii)/DH1/MH/MA A001/A101

AUTHOR:

TITIE:

An experience of employing photoelectrical recording of stellar transits with the large transit instrument of the Pulkovo Observa-Plyugina, A.I.

Referativnyy zhurnal. Astronomiya i Geodeziya, no. 11, 1961, 12, abstract 11A102 ("Izv. Gl. astron. observ. v Pulkove", 1960, v. 22, no. 1 101 - 106 Engl summerus)

no. 1, 101 - 106, Engl. summary) PERIODICAL:

A photoelectric accessory for the transit instrument D=15 cm, F = 260 cm) was constructed and tested in 1957. The author describes the photographic accessory for the author describes the photographic accessory for the author describes the photographic and a device for determined design an amplifier and a device for determined design. r = 200 cm) was constructed and besied in 1901. The addition describes the photo-cascade of original design, an amplifier and a device for determining delay (cf. RZhAstr, 1959, no. 6, 4325). The reading of mires was performed by means of KZNASTR, 1959, no. 0, 4525). The reading of mires was performed by means of the root-mean-square error scales with which lenses of mires were provided for. The root-mean-square of one photoelectrical guiding to a mire turned out to be ± 0.013 (visually of one photoelectrical guiding to a mire turned out to be ± 0.013 (visually of one photoelectrical guiding to a mire turned out to be ± 0.013). or one photoerectrical guiding to a mire turned out to be ± 0.01) (visually to be ± 0.01) (visually to be to 0.01) (visually to be ± 0.01) (visually t tions to hours and azimuth by the least-square method proved to be ± 0.5043 for photoelectrical observations and ± 0.040 for visual observations.

Card 1/2

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341330002-4

An experience of employing photoelectrial ...

s/035/61/000/011/004/028 A001/A101

tional results show that photoelectrical observations of stars up to  $8.5^{m}$  can be carried out with this instrument up to  $89^{0}$  declination. It is necessary to equip the instrument with a special finder enabling one to perform visual control during the observations.

D. Polozhentsev

[Abstracter's note: Complete translation]

Card 2/2

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341330002-4

PLYUGINA, A.I.; SHISHKINA, V.N.

Observational program of circumpolar stars for determining the orientation of the instruments in observing major planets and the sun. Izv.GAO 23 no.1:77-80 '62. (MIRA 16:12)

VASIL'YEV, M. V., doktor tekhn. nauk; RUSSKIY, I. I., kand. tekhn. nauk; FADDEYEV, B. V., kand. tekhn. nauk; SHILIN, A. N., kand. tekhn. nauk; PLYGUNOV, V. S., gornyy inzhener

"Engineers! and technicians! handbook on open-pit mining" by N. V. Mel!nikov. Gor. zhur. no.11:78-79 N '62.
(MIRA 15:10)

(Strip mining) (Mel'nikov, N. V.)

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341330002-4

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PLUKHEL DER, Rudol'f Vladimirovich, elektroslesar' zasluzhennyy master sporta SSSR

Everyone can become a sportsman. Sov.shakht. 11 no.2:42-43 F '62. (MIRA 15:1)

1. Kiselevskaya shakhta No.4-6 Kuznetskogo ugol'nogo basseyna. (Kuznetsk Basin—Physical Education and training)

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341330002-4

5.4700

<del>5(4), 11(1)</del>

JTHOR:

Plyukhin, B. I.

SOV/20-129-5-37/64

67927

TITLE:

On the Steady-state Theory of the Heat Balance of the Condensated Phase of Powders and Explosives

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 5, pp 1096-1099 (USSR)

ABSTRACT:

The author uses equation (1) by Ya. B. Zel'dovich to study the thermal processes in the condensated phase. He investigates the dependence of the thermal processes on the degree of decomposition and on the degree  $\mu$  of dispersion of the condensated phase ( $\nu + \mu = 1$ ). To determine the relationship between conductive and convective heat supply to the condensated phase on the one hand and the temperature of the burning surface on the other, a dimensionless equation (4) is deduced and analyzed under the conditions of combustion in the vacuum and under high pressure. For the thermal balance in the condensated phase the parameters are deduced:  $\alpha_{\rm chem}$  (heat supply by chemical reaction),

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 $\alpha_{\text{heat}}$  (heat supply by convection from the gas phase) and  $\alpha_{\text{rad}}$  (heat supply by radiation from the gas phase). In the range of high  $\psi$ 

On the Steady-state Theory of the Heat Balance of the Condensated Phase of Powders and Explosives

pressures as e.g. in rockets (p = 150 - 200 atm)  $\alpha_{\text{chem}}$  and  $\alpha_{\text{heat}}$ (if  $\mu = const$ ) are constant in first approximation and are for nitroglycerin and pyroxylin powder  $\alpha_{\text{chem}} \simeq 0.70$ ,  $\alpha_{\rm heat} \simeq 0.15$  - 0.20,  $\alpha_{\rm rad} \simeq 0.10$  - 0.15. For p  $\longrightarrow \infty$  however,  $\alpha_{\text{chem}} \longrightarrow 0$ ,  $\alpha_{\text{heat}} \longrightarrow 1$ ,  $\alpha_{\text{rad}} \longrightarrow 0$ . The relative portion of  $\alpha_{\rm rad}$  prior to the occurrence of the flame in the gas phase almost vanishes, then rapidly increases and attains a maximum (0.07 - 0.20) in the range of the pressures at which complete combustion of the powder takes place (p  $\sim$  50 atm); at higher pressures it approximately increases inversely proportionally with pressure. The theories dealing with the heating of the condensated phase only on the basis of heat supply from the gas phase cover only a limiting case of the heat balance equation  $\alpha_{\text{heat}} \longrightarrow 1$ ,  $\alpha_{\text{chem}} \longrightarrow 0$ ,  $\alpha_{\text{rad}} \longrightarrow 0$ . The theories which deal with the heating of the condensated phase only by the chemical reaction correspond to the other limiting case:  $\alpha_{\text{heat}} \longrightarrow 0$ ,

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On the Steady-state Theory of the Heat Balance of the Condensated Phase of Powders and Explosives

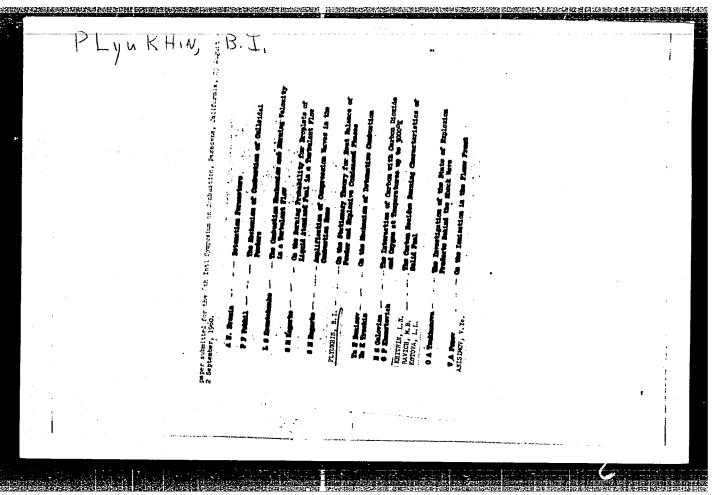
chem 1,  $\alpha_{rad}$  0. The third limiting case corresponds to the theory by E. Sänger (Ref 5)  $\alpha_{rad}$  1 which can practically not be realized. The author mentions D. A. Frank-Kamenetskiy (Ref 3) and A. N. Kolmogorov (Ref 4). There are 5 references, 4 of which are Soviet.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences, USSR)

PRESENTED: June 12, 1959, by V. N. Kondrat'yev, Academician

SUBMITTED: June 11, 1959

Card 3/3



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341330002-4"

11.8200

S/124/61/000/010/037/056 D251/D301

AUTHOR:

Plyukhin, B.I.

TITLE:

On the theory of thermal balance of the condensation phase of vapors and explosive materials in

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stationary combustion

PERIODICAL:

Referativnyy zhurnal. Mekhanika, no. 10, 1961, 87, abstract 10 B617 (Tr. Mosk. fiz. tekhn. in-ta, 1960,

no. 5, 97-108)

TEXT: The mechanism of stationary combustion of homogeneous vapors and solid rocket fuels is considered. For the condensation phase an approximate solution is obtained for the equation of thermal conductivity, calculating the heat evolved through the chemical reactions. The approximation corresponds to large activation energy of the chemical reactions. The following quantities, in dependence on the surface temperature are obtained: The temperature profile, the speed of combustion, and the parameter analogous to

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X

31302 S/124/61/000/010/037/056 On the theory of thermal balance... D251/D301

the critical parameter in D.A. Frank-Kamenetskiy's theory of thermal detonation. The parameter is defined which relates the breadth of the thermal layer to the breadth of the layer in which the chemical reaction exists. The dependence of the speed of combustion upon external conditions is obtained. For this it is accepted that between the flame proper and the condensation phase there is a zone where particles of pulverized powder burn, and that to each of these zones the scheme of Ya.B. Zel'dovich applies. The connection between the temperature of the powder surface and the pressure, which, when the percentage of dispersion does not depend on the pressure, is analogous to the Clapeyron-Clausius equations for the boiling-point is given. The corresponding role of the heat isolated in the condensation phase by chemical reactions, of the convective heat supply to the surface and of the radiant flow of heat from the flame to the powder surface is also evaluated. Abstracter's note: Complete translation

Card 2/2

X

5.4700

AUTHOR:

Plyukhin, B. I.

6**6**806 **S/020/60/131/01/018/**060 **B013/B007** 

TITLE:

The Laws of the Temperature Radiation

of a Flame

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 1, pp 68 - 71

(USSR)

ABSTRACT:

According to experimental data the laws of Wien, Stefan-Boltzmann, and others, which are used in temperature measurements
are by no means always applicable in the case of a flame.
Theoretical investigations of this problem hitherto carried out
are essentially confined to general assumptions concerning the
"blackness" of the flame. In the present paper calculation is
carried out for a concrete, strictly bounded model. The principle of the "point-momentary" equilibrium is applied to the
flame, i.e. at every "point" of the flame the Gibbs distribution of molecules, atoms, and electrons in gas (and of electrons
within the solid inorganic particles existing in the flame) is
valid for its "momentary" temperature T(x,y,z,t), and consequent-

ly also the Kirchhoff-Planck law:  $B_{\gamma}(x,y,z,t) = \frac{\gamma_{\gamma}(x,y,z,t)}{\alpha_{\gamma}(x,y,z,t)} =$ 

Card 1/4

**APPROVED FOR RELEASE: 08/23/2000** 

CIA-RDP86-00513R001341330002-4"

The Laws of the Temperature Radiation of a Flame

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$$= \frac{2hy^3}{c^2} \left[ \exp \left( \frac{hy}{kT(x,y,z,t)} \right) - 1 \right]^{-1}.$$
 Here  $\eta_y$  and  $\alpha_y$  denote the

mass coefficients of emissivity and absorptivity of the medium, h - the Planck constant,  $\gamma$  - frequency, c - the velocity of light, k - the Boltzmann constant. The flame is here considered to be a certain continuum with the density  $\varrho(x,y,z,t)$ , and the equation for radiation transport is given without light dispersion being taken into account. The concentration of the solid inorganic particles in the flame is assumed to be low and the density of the continuum is assumed to satisfy the Clapeyron equation. For the flame, the averaging of the quantities  $\alpha_{ij}$  and

 $\tau_{\gamma}$  (according to the data supplied by V. M. Mal'tsev and P. F. Pokhil) is assumed to be physically justified. The quantities  $\eta_{\gamma}$ ,  $\alpha_{\gamma}$ , T,  $\varrho$ , and M (molecular weight of the medium) do not vary very considerably within the investigated region of the flame. In each volume  $\delta V = \delta x \delta y \delta z$  a locally time-dependent equi-

librium may thus be established during the period of time &t.

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68806

The Laws of the Temperature Radiation of a Flame \$\frac{5}{020}/60/131/01/018/060 B013/B007

Next, expressions are derived for the optical path to and for the wavelength  $\lambda_m$  of the intensity maximum in the spectral distribution of light in the flame. For a flame  $\lambda_m T$  is by no means a constant quantity but a function of the experimental conditions. The solution of the corresponding equations may be tabulated. Next, two limiting cases are analytically dealt with: an optically not dense flame, and an optically dense flame. Wien's law is valid only in the limiting case of the optically dense flame. The formulas for gases of non-hydrogen-like atoms are more complicated than those derived here, but their essential character remains conserved. Next, formulas for the total radiant flux, the logarithmic temperature coefficient, and also for the other logarithmic coefficients are derived. In the limiting case of the optically dense flame, the influence exerted by pressure, structure, and geometric shape of the flame are finally eliminated, and the Stefan-Boltzmann law holds. The deviations from the Stefan-Boltzmann law in optically not dense flames require essential corrections in the formulas for

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The Laws of the Temperature Radiation of a Flame

\$/020/60/131/01/018/060 B013/B007

determining radiation temperature, brightness temperature, and color temperature of the flame. The author thanks P. F. Pokhil, A. D. Margolin, S. S. Novikov, and V. S. Trofimov for their interest in this paper and for discussions. There are 12 references, 3 of which are Soviet.

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences of the USSR) ASSOCIATION:

October 30, 1959, by N. N. Semenov, Academician

PRESENTED:

SUBMITTED:

October 30, 1959

Card 4/4

83565 \$/020/60/134/001/018/021 B004/B060

11,7200

AUTHOR:

Plyukhin, B. I.

TITLE:

On the Steady Combustion of Condensed Systems

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 1,

pp. 137 - 140

TEXT: The author studied the following problems: 1) dependence of the combustion rate of the condensed phase (c-phase) on the experimental conditions; 2) profile of temperature and concentration in the c-phase; 3) influence of the smoke-gas phase (f-phase) and the gas phase (g-phase) on the thermal processes in the c-phase; 4) heat- and mass balance of the c-phase; and 5) critical conditions for the steadiness of combustion of the c-phase. Equation system (1) is written down in this connection:  $\lambda T^{\mu} - cmT^{\epsilon} + Q_{\uparrow}\Phi + kQq_{rad}\exp(kQx) = 0; mN_{\downarrow}^{\epsilon} + \Phi = 0,$   $N_{\uparrow} + N_{\downarrow} = 1, 1/Q = N_{\uparrow}/Q_{0} + N_{\downarrow}RT/PM, Q_{\uparrow} = N_{\uparrow}Q_{\uparrow}, Q_{\downarrow} = N_{\downarrow}Q_{\uparrow}, at T(-\infty) = T_{0}, N_{\uparrow}(-\infty) = 1, T(0) = T_{g}, N_{\uparrow}(0) = \mu$ ,  $\lambda$  denotes the coefficient of thermal

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On the Steady Combustion of Condensed Systems S/020/60/134/001/018/021 B004/B060

On the Steady Combustion of Condensed Systems S/020/60/134/001/018/021 B004/B060

degree), Q = density of the c-phase,  $Q_1$ ,  $Q_2$  are the weight concentrations of the c-substance and of the gas. Required are m, T(x),  $N_1(x)$ ,  $N_2(x)$ ,  $\varrho(x)$ ,  $\varrho_1(x)$ , and  $\varrho_2(x)$ . By considering equations (2) for the conservation of energy and the heat- and mass balance of the c-phase, equation system (6) is obtained from (1) by a method developed by D. A. Frank-Kamenetskiy (Ref. 8) for the theory of the steadiness of thermal explosion. m and all functions can be calculated from the said equation system (6). Equation (8) is written down furthermore for the heat balance of the c-phase as a function of pressure; it was confirmed experimentally by P. F. Pokhil, V. M. Mal'tsev, and G. V. Lukashenya (Ref. 9). For a steady combustion in rocket chambers, various conditions of heat balance (8) are favorable under different engineering factors. For the combustion in cylinders of the diameter D with heat lost to the surrounding medium criterion (11) was found for the steadiness of combustion, which was confirmed experimentally (Refs. 1,11). Steady combustion is only possible at a certain ratio between the values of D, the width  $x_{th}$  of the thermal layer, and the width  $\mathbf{x}_{\mathrm{ch}}$  of the chemical layer. The author Card 3/4

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On the Steady Combustion of Condensed Systems

s/020/60/134/001/018/021 B004/B060

mentions A. V. Belyayev (Ref. 6), K. K. Andreyev (Ref. 7), Ya. D. Zel'dovich (Refs. 3,5), and Landau. There are 11 Soviet references.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of

Sciences USSR)

PRESENTED:

April 7, 1960, by V. N. Kondrat'yev, Academician

SUBMITTED:

April 5, 1960

Card 4/4

PLYUKHIN, D.S., kard.tekhn.nauk

Methods and examples of establishing advanced time norms for mechanized loading and unloading of coal, ore, coke, and metallurgical limestone from cars. Trudy TSNII MPS no.151: 72-118 '58. (MIRA 11:12) (Loading and unloading) (Transportation)

本。他也是这个人,我们的一个人,我们也是不是一个人,我们就是我们会是这个人,我们就是这个人,我们是一个人,我们也不是一个人,我们就是我们的人,我们就是这个人,我们

PLYUKHIN, D.S., kand. tekhn. nauk

Methods and examples of establishing advanced time norms for mechanized loading and unloading of metal from cars. Truly TSNII MPS no.151:119-138 '58. (MIRA 11:12) (Loading and unloading) (Metals--Transportation)

LEPSKIY, A.V.; PLYUKHIN, D.S.; RAMODIN, V.N.; PETROVA, V.L., red.;
MEDVEDEVA, M.A., tekhn. red.

[Inertia system for the unloading of bulk and lump freight from box cars developed by the Central Scientific Research Institute of the Ministry of Railroad Transportation] Inertsionnaia ustanovof the Ministry of Railroad Transportation] Inertsionnaia ustanovof the Ministry of Railroad Transportation] Inertsionnaia ustanovof ka TsNII MPS dlia vygruzki sypuchikh i kuakovykh gruzov iz krytykh ka TsNII MPS dlia vygruzki sypuchikh i kuakovykh gruzov iz krytykh vagonov. Moskva, Vses. izdatel sko-poligr. ob*edinenie M-va putei vagonov. Moskva, Vses. izdatel sko-poligr. (MIRA 14:12) soobshcheniia, 1961. 26 p. (Loading and unloading)

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341330002-4

PLYUKHIN, D.S., kand.tekhn.nauk; RAMODIN, V.N., inzh.

Results of the testing of inertia unloading machines. Vest.
TSNII MFS 20 no.5:33-37 '61. (MTRI 14:8)

(Loading and unloading) (Railroads—Freight cars)